

FCC TEST REPORT

for

Acrox Technologies Co., Ltd.

Nano Receiver

Model Number: MRN/MRT/MRP

FCC ID: PRDRX07

Prepared for : Acox Technologies Co., Ltd.
Address : 4F., No.89, Minshan St., Neihu Dist., Taipei City 114, ,
Taiwan, R.O.C

Prepared by : Keyway Testing Technology Co., Ltd.
Address : Baishun Industrial Zone, Zhangmutou Town,
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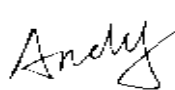
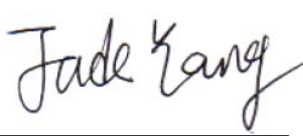

Report No. : 13KWE01433F
Date of Test : Jan.17~18, 2013
Date of Report : Jan.21,2012

TABLE OF CONTENTS

| | Page |
|--|------|
| Test Report Declaration | 4 |
| 1. GENERAL PRODUCT INFORMATION | 4 |
| 1.1. Product Function | 4 |
| 1.2. Description of Device (EUT) | 4 |
| 1.3. Independent Operation Modes | 4 |
| 1.4. Difference between Model Numbers..... | 4 |
| 1.5. For test support Unit | 4 |
| 2. TEST SITES | 5 |
| 2.1. Test Facilities..... | 5 |
| 2.2. List of Test and Measurement Instruments..... | 6 |
| 3. TEST SET-UP AND OPERATION MODES | 7 |
| 3.1. Principle of Configuration Selection | 7 |
| 3.2. Block Diagram of Test Set-up | 7 |
| 3.3. Test Operation Mode and Test Software | 7 |
| 3.4. Special Accessories and Auxiliary Equipment | 7 |
| 3.5. Countermeasures to Achieve EMC Compliance..... | 7 |
| 4. EMISSION TEST RESULTS..... | 8 |
| 4.1. Conducted Emission at the Mains Terminals Test..... | 8 |
| 4.2. Radiated Emission Test..... | 11 |
| 5. 20DB OCCUPY BANDWIDTH..... | 21 |
| 5.1. Limits | 21 |
| 6. BAND EDGE COMPLIANCE TEST | 23 |
| 6.1. Limits | 23 |
| 6.2. Test setup..... | 23 |
| 7. ANTENNA REQUIREMENT: | 28 |
| 8. PHOTOGRAPHS OF TEST SET-UP..... | 29 |
| 8.1. Set-up for Conducted Emission Test | 29 |
| 8.2. Set-up for Radiated Emission Test | 29 |
| 9. PHOTOGRAPHS OF THE EUT | 31 |



Keyway Testing Technology Co., Ltd.

| | | | |
|---|---|---|-----------------|
| Applicant: | Acrox Technologies Co., Ltd. | | |
| Address: | 4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan, R.O.C | | |
| Manufacturer: | Acrox Technologies Co., Ltd. | | |
| Address: | 4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan, R.O.C | | |
| Factor: | Acrox Technologies Co., Ltd. | | |
| Address: | Hsinmin Industria, Changan Town, Dongguan City, Guangdong, China | | |
| E.U.T: | Nano Receiver | | |
| Model Number: | MRN/MRT/MRP | | |
| Trade Name: | ACROX/ONN | Serial No.: | ----- |
| Date of Receipt: | Jan.15, 2013 | Date of Test: | Jan.17~18, 2013 |
| Test Specification: | FCC Part 15, Subpart C: Oct. 1, 2010 ANSI C63.4:2009 | | |
| Test Result: | The equipment under test was found to be compliance with the requirements of the standards applied. | | |
| | Issue Date: Jan.21, 2013 | | |
| Tested by: | Reviewed by: | Approved by: | |
|  |  |  | |
| Andy Gao / Engineer | Jade Yang / Supervisor | Chris Du / Manager | |
| Other Aspects: | None. | | |
| <i>Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested</i> | | | |
| <i>This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Keyway Testing Technology Co., Ltd.</i> | | | |



1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

| | | |
|-----------------------|---|----------------------------------|
| Description | : | Nano Receiver |
| M/N | : | MRN/MRT/MRP |
| Power Supply | : | DC 5V from PC input AC 120V/60Hz |
| Operation Frequency | : | 2408~2474MHz |
| Modulation Technology | : | GFSK |
| Antenna Type | : | Integrated PCB antenna |
| Antenna Gain | : | 0.5dBi |

1.3. Independent Operation Modes

The basic operation modes are:

1.3.1. EUT work continues TX mode and frequency as below:

| | | |
|---------|---|-----------|
| Channel | : | Frequency |
| Low | : | 2408MHz |
| Middle | : | 2440MHz |
| High | : | 2474MHz |

1.4. Difference between Model Numbers

Note: The products are all the same except the model number.

1.5. For test support Unit

Notebook:

Manufacturer: Lenovo

M/N: Lenovo G475

S/N: GB14477457

Adapter:

Manufacturer: Lenovo

M/N: LN-A0403A3C

S/N: 36001672

Input: 100-240V/2.5A,50-60Hz

Output: 20V/2A

2. TEST SITES

2.1. Test Facilities

Lab Qualifications : 944 Shielded Room built by ETS-Lindgren, USA
Date of completion: March 28, 2011

966 Chamber built by ETS-Lindgren, USA
Date of completion: March 28, 2011

Certificated by TUV Rheinland, Germany.
Registration No.: UA 50207153
Date of registration: July 13, 2011

Certificated by UL, USA
Registration No.: 100567-237
Date of registration: September 1, 2011

Certificated by Intertek
Registration No.: 2011-RTL-L1-31
Date of registration: October 11, 2011

Certificated by Industry Canada
Registration No.: 9868A
Date of registration: December 8, 2011

Certificated by FCC, USA
Registration No.: 370994
Date of registration: February 21, 2012

Certificated by CNAS China
Registration No.: CNAS L5783
Date of registration: August 8, 2012

Name of Firm : Keyway Testing Technology Co., Ltd.

Site Location : Baishun Industrial Zone, Zhangmutou Town,
Dongguan, Guangdong, China

2.2. List of Test and Measurement Instruments

2.2.1. For Connected emission test (Below 1GHz)

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|--------------------------------|---------------|-----------|------------|-----------|-----------|
| EMI Test Receiver | Rohde&Schwarz | ESCI | 101156 | Jul. 7,12 | Jul. 7,13 |
| Artificial Mains Network | Rohde&Schwarz | ENV216 | 101315 | Jul. 2,12 | Jul. 2,13 |
| Artificial Mains Network (AUX) | Rohde&Schwarz | ENV216 | 101314 | Jul. 2,12 | Jul. 2,13 |
| RF Cable | FUJIKURA | 3D-2W | 944 Cable | Jul. 2,12 | Jul. 2,13 |

2.2.2. For radiated emission test (Below 1GHz)

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|--------------------------|---------------|-----------|--------------|------------|------------|
| EMI Test Receiver | Rohde&Schwarz | ESCI | 101156 | Jul. 7,12 | Jul. 7,13 |
| Bilog Antenna | ETS-LINDGREEN | 3142D | 135452 | Jun. 28,12 | Jun. 28,13 |
| Spectrum Analyzer | Agilent | E4411B | MY4511304 | Jul. 11,12 | Jul. 11,13 |
| 3m Semi-anechoic Chamber | ETS-LINDGREEN | 966 | KW01 | Aug.29,12 | Aug.29,13 |
| Signal Amplifier | SONOMA | 310 | 187016 | Jul. 7,12 | Jul. 7,13 |
| Signal Amplifier | Agilent | 8449B | 3008A00251 | Jul. 7,12 | Jul. 7,13 |
| RF Cable | IMRO | IMRO-400 | 966 Cable 1# | Jul. 7,12 | Jul. 7,13 |
| MULTI-DEVICE Controller | ETS-LINDGREEN | 2090 | 126913 | N/A | N/A |

2.2.3. For above 1GHz radiated emission, band edge, 20dB bandwidth test

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|--------------------------|--------------|-----------|--------------|------------|------------|
| Horn Antenna | DAZE | ZN30701 | 11003 | Jul. 11,12 | Jul. 11,13 |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 9170-068 | Jul. 11,12 | Jul. 11,13 |
| Spectrum Analyzer | Agilent | 8593E | 3911A04271 | Jul. 7,12 | Jul. 7,13 |
| 3m Semi-anechoic Chamber | ETS-LINDGREN | 966 | KW01 | Jul. 7,12 | Jul. 7,13 |
| Signal Amplifier | DAZE | ZN3380C | 11001 | Jul. 7,12 | Jul. 7,13 |
| Signal Amplifier | Agilent | 8449B | 3008A00251 | Jul. 7,12 | Jul. 7,13 |
| RF Cable | IMRO | IMRO-400 | 966 Cable 1# | Jul. 7,12 | Jul. 7,13 |
| MULTI-DEVICE Controller | ETS-LINDGREN | 2090 | 126913 | N/A | N/A |
| Antenna Holder | ETS-LINDGREN | 2070B | 00109601 | N/A | N/A |

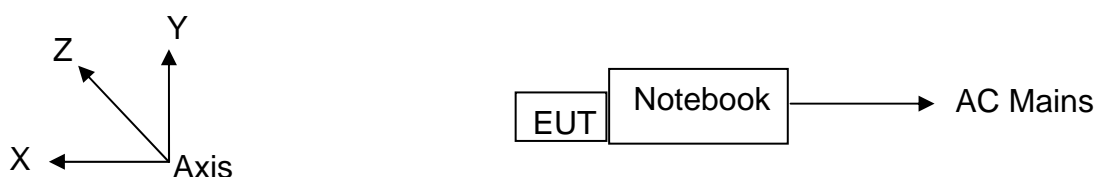
3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators



(EUT: Nano Receiver)

Note: By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that “Y axis” position was the worst, then the final test was executed the worst condition and test data were recorded in this report. Test data as below.

| Frequency (MHz) | Axis | Field Strength (dBuV/m) | Antenna Polarization |
|-----------------|------|-------------------------|----------------------|
| 2408 | X | 83.68 | Horizontal |
| 2408 | Y | 84.41 | Horizontal |
| 2408 | Z | 82.19 | Horizontal |

3.3. Test Operation Mode and Test Software

None.

3.4. Special Accessories and Auxiliary Equipment

None.

3.5. Countermeasures to Achieve EMC Compliance

None.

4. EMISSION TEST RESULTS

4.1. Conducted Emission at the Mains Terminals Test

4.1.1. Limit 15.209 limits

| Frequency of emission (MHz) | Conducted limit (dB μ V) | |
|-----------------------------|------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15–0.5 | 66 to 56* | 56 to 46* |
| 0.5–5 | 56 | 46 |
| 5–30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

4.1.2. Test setup

The EUT was put on a wooden table which was 0.8 m high above the ground and connected to the AC mains through the Artificial Mains Network (AMN). Where the mains cable supplied by the manufacture was longer than 0.8 m, the excess was folded back and forth parallel to the cable at the centre so as to form a bundle no longer than 0.4 m.

The EUT was kept 0.4 m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during the conducted emission test.

The frequency range from 150 kHz to 30 MHz was investigated.

The bandwidth of the test receiver was set at 9 kHz.

The test data of the worst case condition(s) was reported on the following page. All the scanning waveforms were attached within Appendix I.

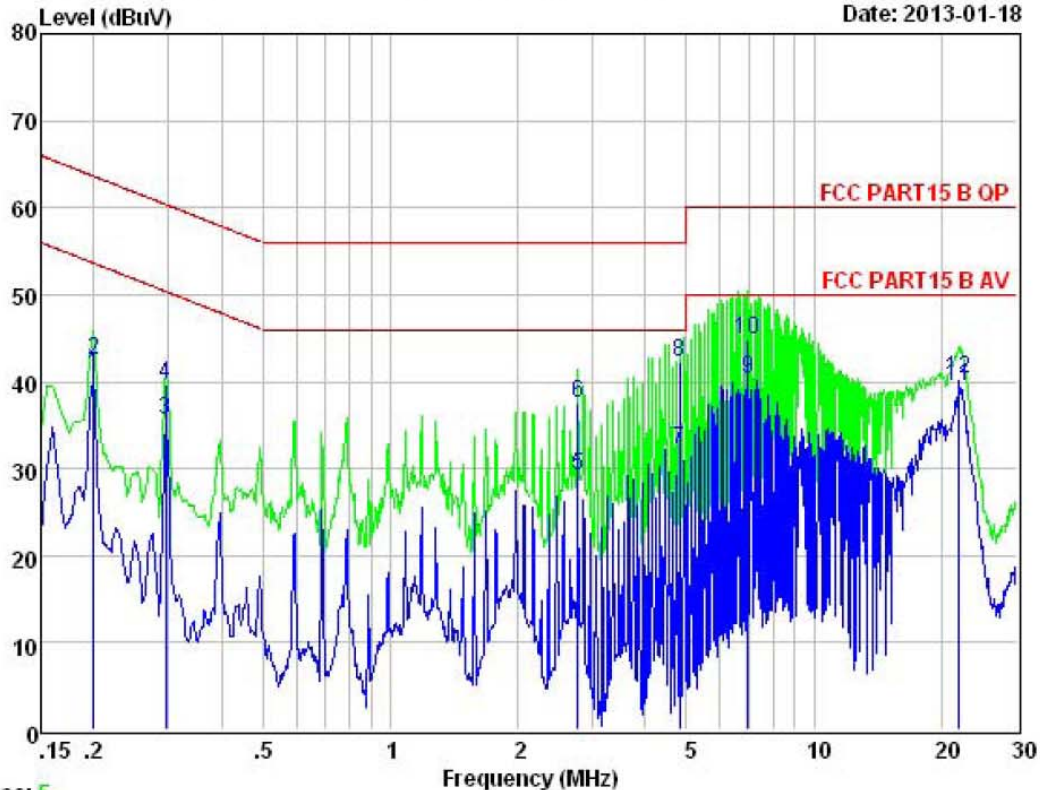
Test Data



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Data: 6 File: F:\944 Data\conduction\A\Acrox.EM6 (8)

Date: 2013-01-18



Trace: 5

Site : 944 Shielded Room
 Condition : FCC PART15 B QP NEUTRAL
 EUT : Nano Receiver
 POWER : DC 5V from PC input AC 120V/60Hz
 M/N : MRN
 Test Engineer: Andy
 Comment : Temp:24.7';Humi:56%;Press;101.52kPa
 Test Mode : TX Mode

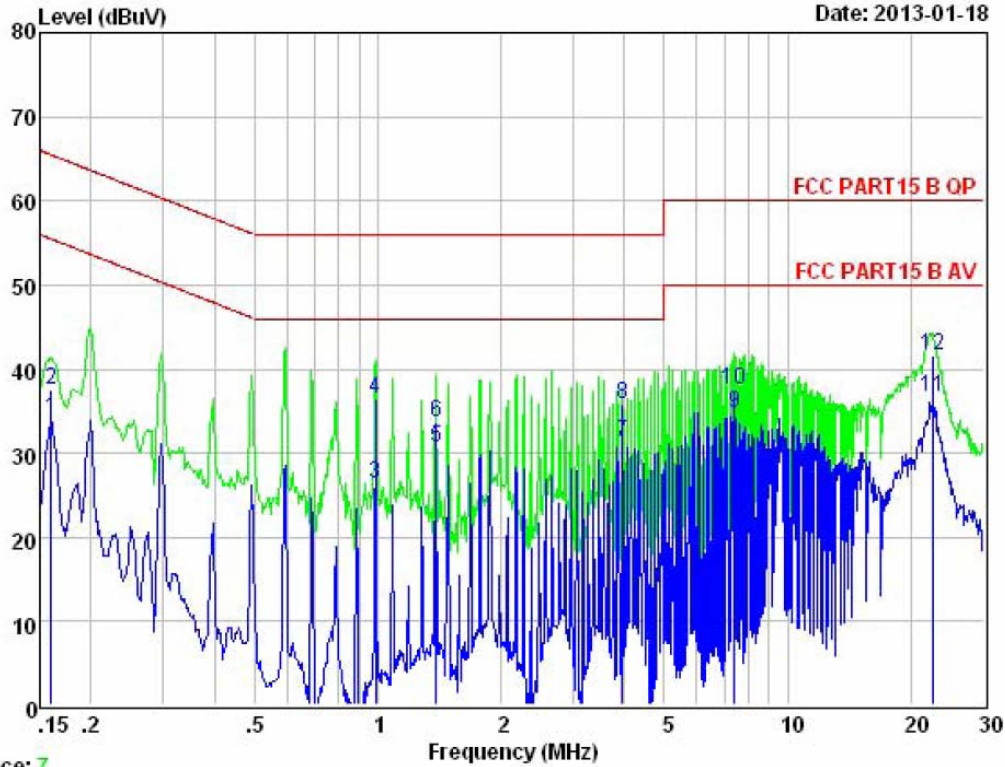
| | Limit | Over | | |
|------|-------|-------|-------|----------------|
| Freq | Level | Line | Limit | Remark |
| MHz | dBuV | dBuV | dB | |
| 1 | 0.20 | 40.65 | 53.62 | -12.97 Average |
| 2 | 0.20 | 42.57 | 63.62 | -21.05 QP |
| 3 | 0.30 | 35.50 | 50.37 | -14.87 Average |
| 4 | 0.30 | 39.67 | 60.37 | -20.70 QP |
| 5 | 2.76 | 29.19 | 46.00 | -16.81 Average |
| 6 | 2.76 | 37.46 | 56.00 | -18.54 QP |
| 7 | 4.82 | 32.13 | 46.00 | -13.87 Average |
| 8 | 4.82 | 42.18 | 56.00 | -13.82 QP |
| 9 | 6.99 | 40.42 | 50.00 | -9.58 Average |
| 10 | 6.99 | 44.72 | 60.00 | -15.28 QP |
| 11 | 21.95 | 39.42 | 50.00 | -10.58 Average |
| 12 | 21.95 | 40.38 | 60.00 | -19.62 QP |





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Data: 8 File: F:\944 Data\conduction\A\Acrox.EM6 (8) Date: 2013-01-18



Trace: 7
 Site : 944 Shielded Room
 Condition : FCC PART15 B QP LINE
 EUT : Nano Receiver
 POWER : DC 5V from PC input AC 120V/60Hz
 M/N : MRN
 Test Engineer: Andy
 Comment : Temp:24.7';Humi:56%;Press;101.52kPa
 Test Mode : TX Mode

| | Limit | Over | | | |
|------|-------|-------|-------|--------|---------|
| Freq | Level | Line | Limit | Remark | |
| MHz | dBuV | dBuV | dB | | |
| 1 | 0.16 | 34.15 | 55.47 | -21.32 | Average |
| 2 | 0.16 | 37.64 | 65.47 | -27.83 | QP |
| 3 | 0.99 | 26.39 | 46.00 | -19.61 | Average |
| 4 | 0.99 | 36.49 | 56.00 | -19.51 | QP |
| 5 | 1.39 | 30.75 | 46.00 | -15.25 | Average |
| 6 | 1.39 | 33.67 | 56.00 | -22.33 | QP |
| 7 | 3.94 | 31.38 | 46.00 | -14.62 | Average |
| 8 | 3.94 | 35.91 | 56.00 | -20.09 | QP |
| 9 | 7.41 | 34.78 | 50.00 | -15.22 | Average |
| 10 | 7.41 | 37.64 | 60.00 | -22.36 | QP |
| 11 | 22.66 | 36.75 | 50.00 | -13.25 | Average |
| 12 | 22.66 | 41.67 | 60.00 | -18.33 | QP |



4.2. Radiated Emission Test

4.2.1. Limit 15.209 limits

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|---|----------|
| | | μV/m | dB(μV)/m |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | 74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average) | |

4.2.2. Fundamental and harmonics emission limits

| Fundamental Frequency | Field Strength of Fundamental | | Field Strength of Harmonics | |
|--------------------------|-------------------------------|--------|-----------------------------|--------|
| | mV/m | dBuV/m | uV/m | dBuV/m |
| 902~928 MHz | 50 | 94 | 500 | 54 |
| 2400~2483.5 MHz | 50 | 94 | 500 | 54 |
| 5725~5875MHz | 50 | 94 | 500 | 54 |
| 24.0~24.25GHz | 250 | 108 | 2500 | 68 |

4.2.3. Restricted bands of operation

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.2.4. Test setup

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

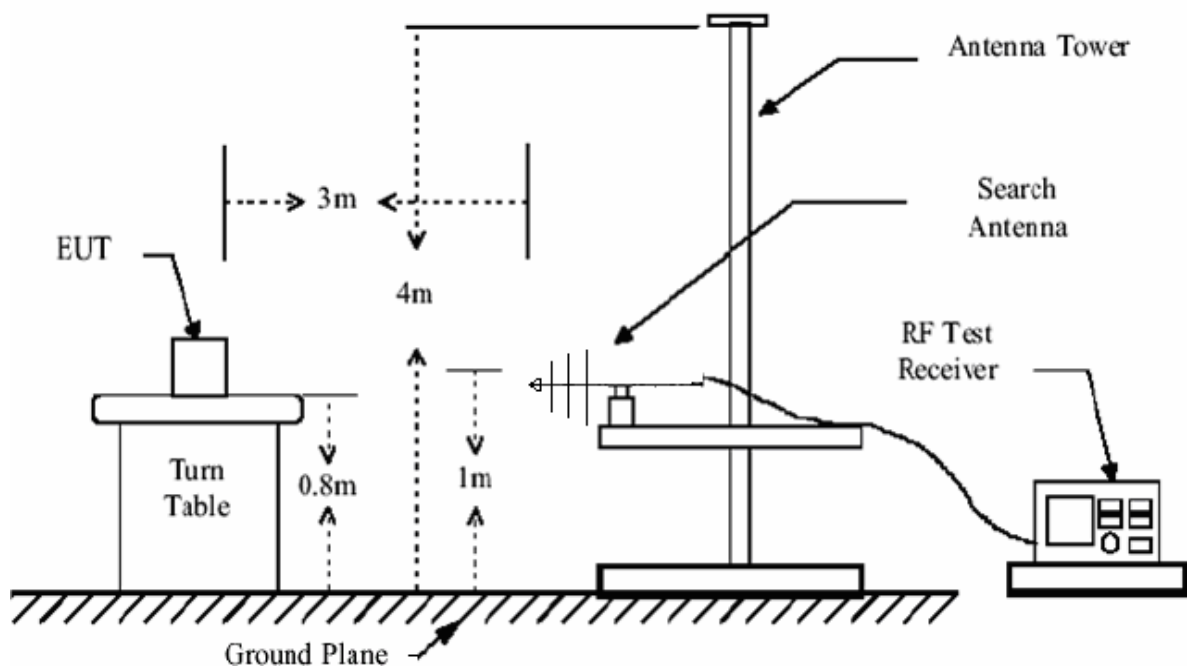
The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

The test data of the worst case condition(s) was reported on the following pages.



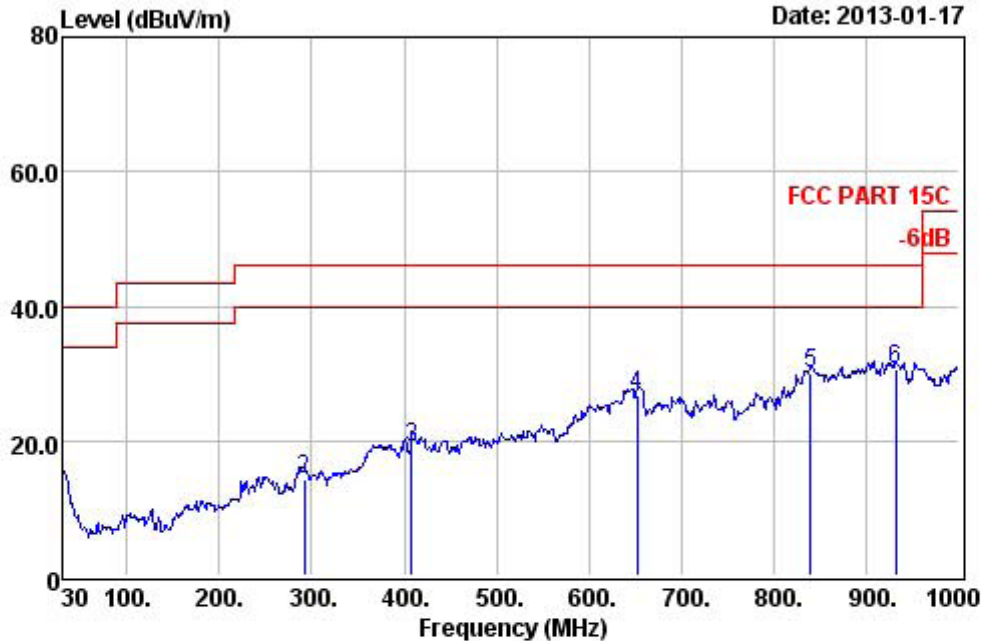
Test Data



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Data: 75 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-17



Site : 966 Chamber
 Condition: FCC PART 15C 3m 3142D VERTICAL
 EUT : Nano Receiver
 M/N : MRN
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: TX Mode

| | Preamp | Read | Cable | Antenna | Limit | Over | | |
|------|--------|-------|-------|---------|--------|--------|-------|--------|
| Freq | Factor | Level | Loss | Factor | Line | Limit | | |
| MHz | dB | dBuV | dB | dB/m | dBuV/m | dBuV/m | | |
| 1 | 30.00 | 31.41 | 26.31 | 0.56 | 18.80 | 14.26 | 40.00 | -25.74 |
| 2 | 291.90 | 30.93 | 29.88 | 1.87 | 13.54 | 14.36 | 46.00 | -31.64 |
| 3 | 408.30 | 30.63 | 30.73 | 2.48 | 16.57 | 19.15 | 46.00 | -26.85 |
| 4 | 652.74 | 30.82 | 32.61 | 3.58 | 21.47 | 26.84 | 46.00 | -19.16 |
| 5 | 839.95 | 30.41 | 32.75 | 4.59 | 23.10 | 30.03 | 46.00 | -15.97 |
| 6 | 932.10 | 29.78 | 30.96 | 4.89 | 24.67 | 30.74 | 46.00 | -15.26 |

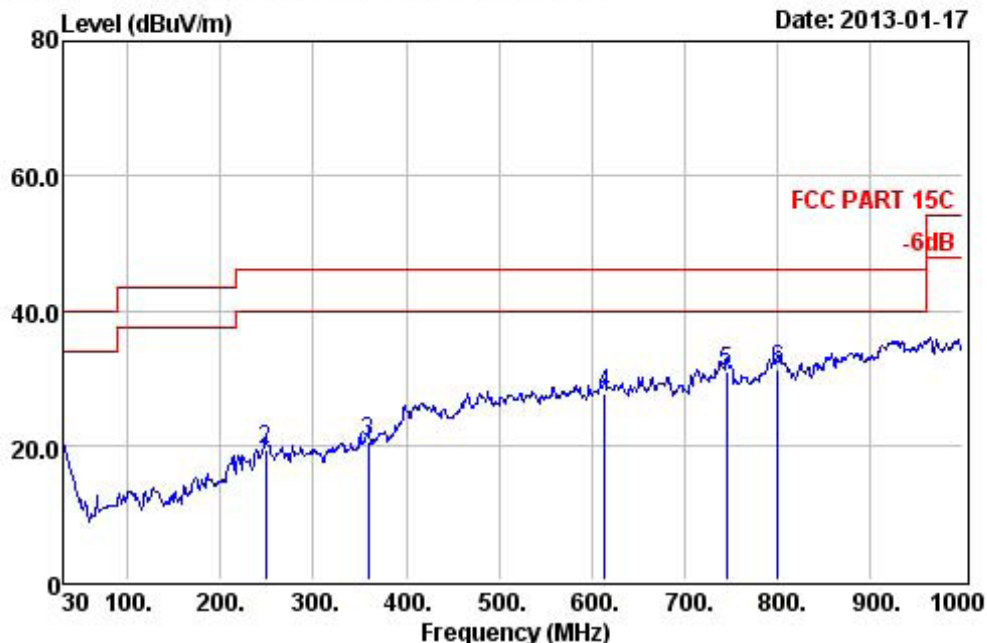
Notes: 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp Factor.
 2. Measurement Uncertainty: ±3.2 dB at a level of confidence of 95%.





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Data: 76 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART 15C 3m 3142D HORIZONTAL
 EUT : Nano Receiver
 M/N : MRN
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: TX Mode

| | | Preamp | Read | CableAntenna | | Limit | Over |
|---|--------|--------|-------|--------------|-------|--------|--------------|
| | Freq | Factor | Level | Loss Factor | Level | Line | Limit |
| | MHz | dB | dBuV | dB | dB/m | dBuV/m | dBuV/m |
| 1 | 30.00 | 31.41 | 32.02 | 0.56 | 18.80 | 19.97 | 40.00 -20.03 |
| 2 | 248.25 | 30.96 | 35.61 | 1.70 | 12.85 | 19.20 | 46.00 -26.80 |
| 3 | 359.80 | 30.62 | 32.95 | 2.18 | 16.11 | 20.62 | 46.00 -25.38 |
| 4 | 613.94 | 30.63 | 33.96 | 3.38 | 20.99 | 27.70 | 46.00 -18.30 |
| 5 | 745.86 | 30.67 | 34.93 | 4.04 | 22.77 | 31.07 | 46.00 -14.93 |
| 6 | 801.15 | 30.56 | 34.49 | 4.29 | 23.00 | 31.22 | 46.00 -14.78 |

Notes: 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp Factor.
 2. Measurement Uncertainty: ±3.2 dB at a level of confidence of 95%.

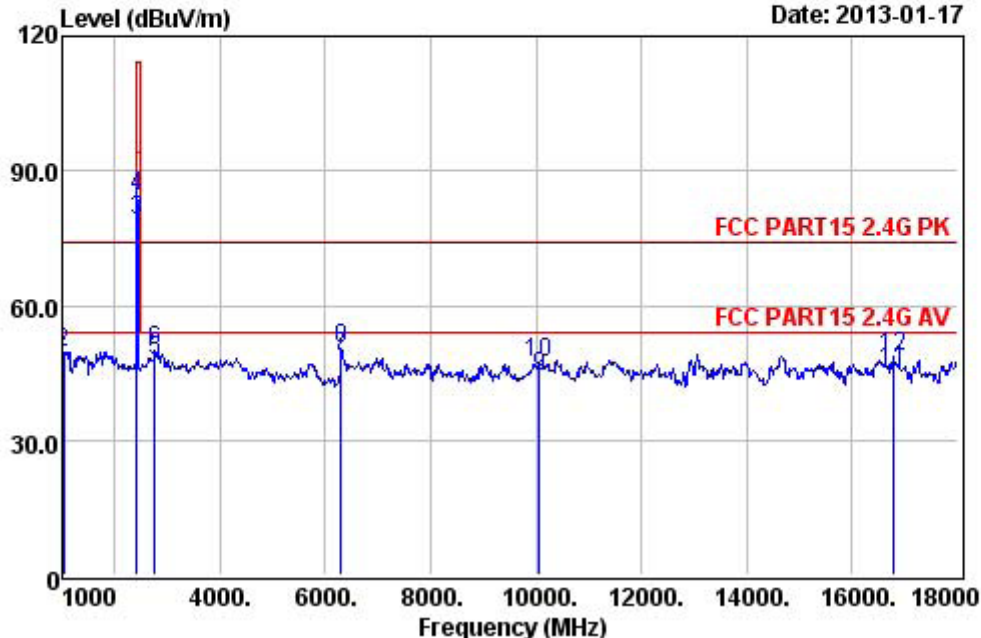




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Data: 80 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-17



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
 EUT : Nano Receiver
 M/N : MRN
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: TX Mode 2408MHz

| | Preamp | Read | CableAntenna | Limit | Over | | | | |
|----|----------|--------|--------------|-------|--------|--------|--------|--------|---------|
| | Freq | Factor | Level | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dB | dBuV | dB | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 1034.00 | 26.01 | 42.16 | 4.96 | 24.18 | 45.29 | 54.00 | -8.71 | Average |
| 2 | 1034.00 | 26.01 | 46.49 | 4.96 | 24.18 | 49.62 | 74.00 | -24.38 | Peak |
| 3 | 2408.00 | 26.32 | 69.35 | 7.39 | 28.73 | 79.15 | 94.00 | -14.85 | Average |
| 4 | 2408.00 | 26.32 | 74.61 | 7.39 | 28.73 | 84.41 | 114.00 | -29.59 | Peak |
| 5 | 2768.00 | 26.43 | 35.82 | 8.84 | 29.44 | 47.67 | 54.00 | -6.33 | Average |
| 6 | 2768.00 | 26.43 | 37.98 | 8.84 | 29.44 | 49.83 | 74.00 | -24.17 | Peak |
| 7 | 6304.00 | 27.76 | 24.21 | 16.60 | 35.62 | 48.67 | 54.00 | -5.33 | Average |
| 8 | 6304.00 | 27.76 | 25.91 | 16.60 | 35.62 | 50.37 | 74.00 | -23.63 | Peak |
| 9 | 10061.00 | 28.81 | 17.53 | 16.98 | 38.51 | 44.21 | 54.00 | -9.79 | Average |
| 10 | 10061.00 | 28.81 | 20.73 | 16.98 | 38.51 | 47.41 | 74.00 | -26.59 | Peak |
| 11 | 16793.00 | 30.02 | 10.02 | 21.18 | 44.10 | 45.28 | 54.00 | -8.72 | Average |
| 12 | 16793.00 | 30.02 | 13.42 | 21.18 | 44.10 | 48.68 | 74.00 | -25.32 | Peak |

Notes: 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp Factor.
 2. Measurement Uncertainty: ±3.2 dB at a level of confidence of 95%.

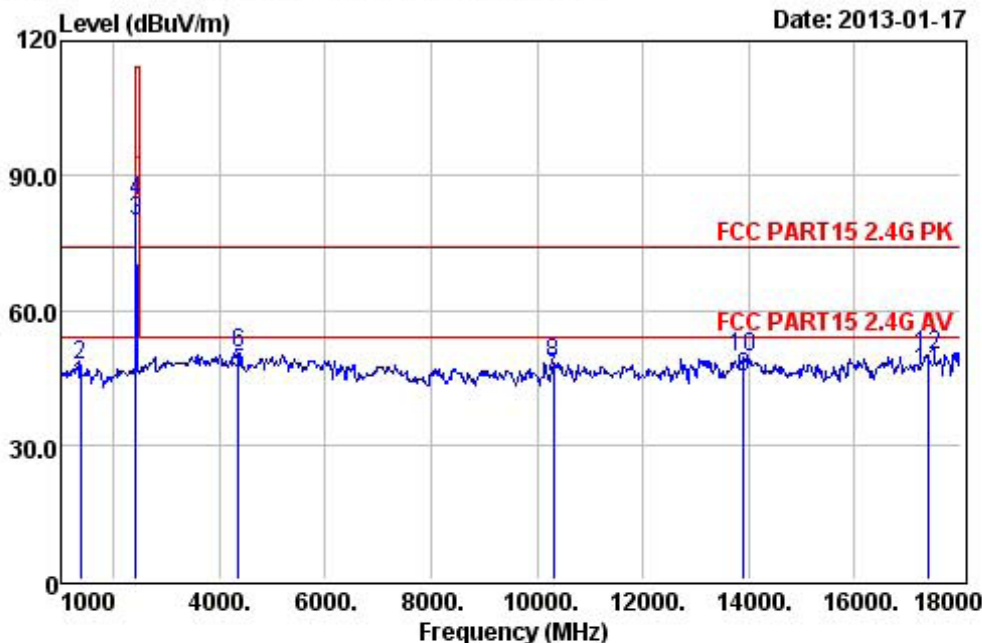




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Data: 82 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-17



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
 EUT : Nano Receiver
 M/N : MRN
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: TX Mode 2408MHz

| | Preamp | Read | CableAntenna | Limit | Over | | | | |
|----|----------|--------|--------------|-------|--------|--------|--------|--------|---------|
| | Freq | Factor | Level | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dB | dBuV | dB | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 1374.00 | 26.07 | 39.02 | 5.21 | 25.01 | 43.17 | 54.00 | -10.83 | Average |
| 2 | 1374.00 | 26.07 | 43.53 | 5.21 | 25.01 | 47.68 | 74.00 | -26.32 | Peak |
| 3 | 2408.00 | 26.32 | 70.05 | 7.39 | 28.73 | 79.85 | 94.00 | -14.15 | Average |
| 4 | 2408.00 | 26.32 | 74.30 | 7.39 | 28.73 | 84.10 | 114.00 | -29.90 | Peak |
| 5 | 4349.00 | 27.21 | 30.05 | 11.03 | 31.99 | 45.86 | 54.00 | -8.14 | Average |
| 6 | 4349.00 | 27.21 | 34.74 | 11.03 | 31.99 | 50.55 | 74.00 | -23.45 | Peak |
| 7 | 10316.00 | 28.83 | 17.99 | 17.03 | 38.91 | 45.10 | 54.00 | -8.90 | Average |
| 8 | 10316.00 | 28.83 | 20.91 | 17.03 | 38.91 | 48.02 | 74.00 | -25.98 | Peak |
| 9 | 13903.00 | 29.38 | 12.00 | 19.24 | 43.40 | 45.26 | 54.00 | -8.74 | Average |
| 10 | 13903.00 | 29.38 | 16.06 | 19.24 | 43.40 | 49.32 | 74.00 | -24.68 | Peak |
| 11 | 17388.00 | 30.26 | 9.65 | 21.69 | 45.21 | 46.29 | 54.00 | -7.71 | Average |
| 12 | 17388.00 | 30.26 | 13.50 | 21.69 | 45.21 | 50.14 | 74.00 | -23.86 | Peak |

Notes: 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp Factor.
 2. Measurement Uncertainty: ±3.2 dB at a level of confidence of 95%.

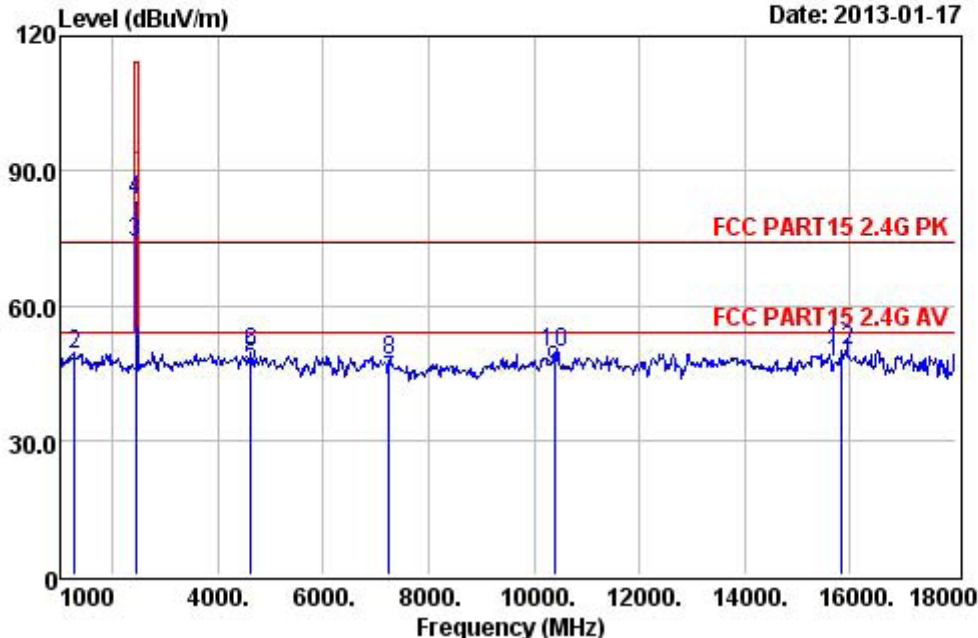




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Data: 86 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-17



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
 EUT : Nano Receiver
 M/N : MRN
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: TX Mode 2440MHz

| | Preamp | Read | CableAntenna | Limit | Over | | | | |
|----|----------|--------|--------------|-------|--------|--------|--------|--------|---------|
| | Freq | Factor | Level | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dB | dBuV | dB | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 1272.00 | 26.05 | 40.46 | 5.14 | 24.76 | 44.31 | 54.00 | -9.69 | Average |
| 2 | 1272.00 | 26.05 | 45.13 | 5.14 | 24.76 | 48.98 | 74.00 | -25.02 | Peak |
| 3 | 2440.00 | 26.33 | 64.14 | 7.48 | 28.76 | 74.05 | 94.00 | -19.95 | Average |
| 4 | 2440.00 | 26.33 | 73.63 | 7.48 | 28.76 | 83.54 | 114.00 | -30.46 | Peak |
| 5 | 4621.00 | 27.38 | 29.67 | 11.56 | 32.49 | 46.34 | 54.00 | -7.66 | Average |
| 6 | 4621.00 | 27.38 | 32.92 | 11.56 | 32.49 | 49.59 | 74.00 | -24.41 | Peak |
| 7 | 7256.00 | 27.95 | 17.40 | 16.61 | 37.30 | 43.36 | 54.00 | -10.64 | Average |
| 8 | 7256.00 | 27.95 | 21.74 | 16.61 | 37.30 | 47.70 | 74.00 | -26.30 | Peak |
| 9 | 10384.00 | 28.84 | 18.08 | 17.04 | 39.01 | 45.29 | 54.00 | -8.71 | Average |
| 10 | 10384.00 | 28.84 | 22.46 | 17.04 | 39.01 | 49.67 | 74.00 | -24.33 | Peak |
| 11 | 15824.00 | 29.67 | 16.62 | 20.52 | 39.64 | 47.11 | 54.00 | -6.89 | Average |
| 12 | 15824.00 | 29.67 | 19.51 | 20.52 | 39.64 | 50.00 | 74.00 | -24.00 | Peak |

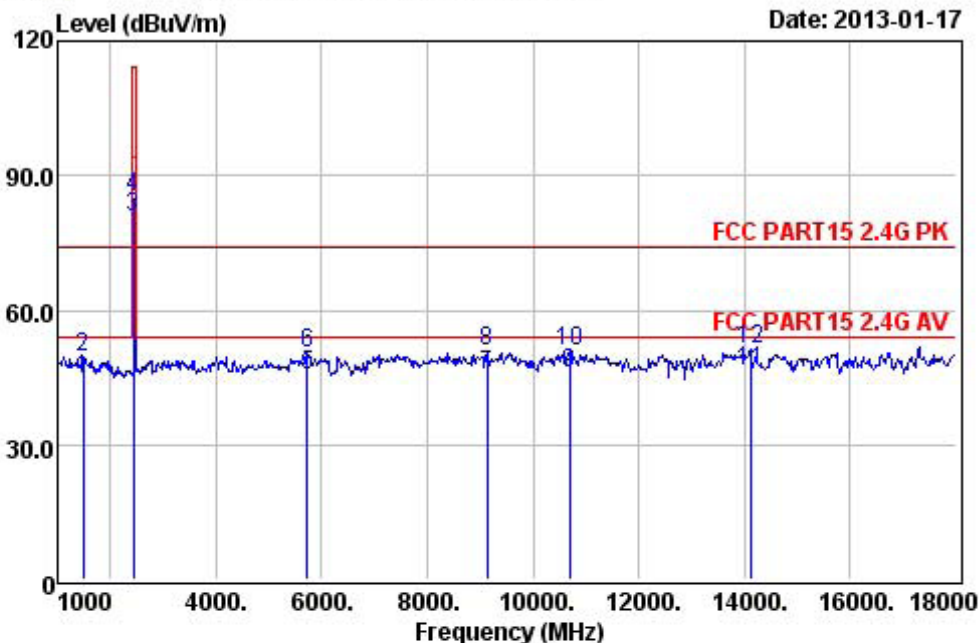
Notes: 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp Factor.
 2. Measurement Uncertainty: ±3.2 dB at a level of confidence of 95%.





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Data: 83 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
 EUT : Nano Receiver
 M/N : MRN
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: TX Mode 2440MHz

| | Preamp | Read | Cable | Antenna | Limit | Over | | | |
|----|----------|--------|-------|---------|--------|--------|--------|--------|---------|
| | Freq | Factor | Level | Loss | Factor | Level | Line | Limit | |
| | MHz | dB | dBuV | dB | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 1476.00 | 26.09 | 40.21 | 5.33 | 25.26 | 44.71 | 54.00 | -9.29 | Average |
| 2 | 1476.00 | 26.09 | 45.11 | 5.33 | 25.26 | 49.61 | 74.00 | -24.39 | Peak |
| 3 | 2440.00 | 26.33 | 70.63 | 7.48 | 28.76 | 80.54 | 94.00 | -13.46 | Average |
| 4 | 2440.00 | 26.33 | 75.51 | 7.48 | 28.76 | 85.42 | 114.00 | -28.58 | Peak |
| 5 | 5726.00 | 27.67 | 23.36 | 15.05 | 34.59 | 45.33 | 54.00 | -8.67 | Average |
| 6 | 5726.00 | 27.67 | 28.65 | 15.05 | 34.59 | 50.62 | 74.00 | -23.38 | Peak |
| 7 | 9126.00 | 28.45 | 19.39 | 16.89 | 37.54 | 45.37 | 54.00 | -8.63 | Average |
| 8 | 9126.00 | 28.45 | 24.94 | 16.89 | 37.54 | 50.92 | 74.00 | -23.08 | Peak |
| 9 | 10690.00 | 28.87 | 18.58 | 17.10 | 39.31 | 46.12 | 54.00 | -7.88 | Average |
| 10 | 10690.00 | 28.87 | 23.19 | 17.10 | 39.31 | 50.73 | 74.00 | -23.27 | Peak |
| 11 | 14107.00 | 29.42 | 13.47 | 19.43 | 42.90 | 46.38 | 54.00 | -7.62 | Average |
| 12 | 14107.00 | 29.42 | 18.31 | 19.43 | 42.90 | 51.22 | 74.00 | -22.78 | Peak |

Notes: 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp Factor.
 2. Measurement Uncertainty: ±3.2 dB at a level of confidence of 95%.

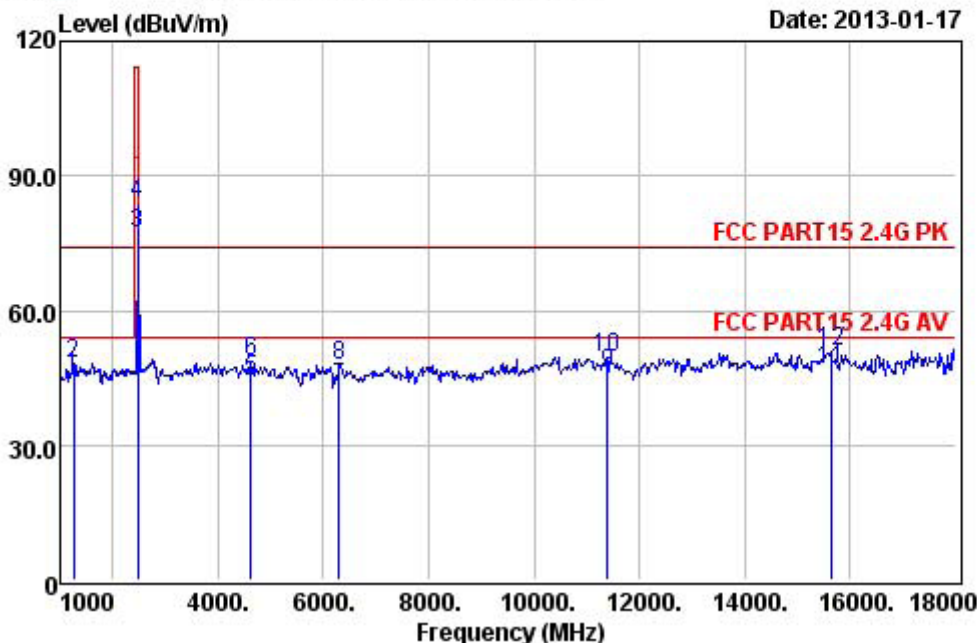




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Data: 87 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-17



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
 EUT : Nano Receiver
 M/N : MRN
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: TX Mode 2474MHz

| | | Preamp | Read | CableAntenna | | Limit | Over | | |
|----|----------|--------|-------|--------------|--------|--------|--------|--------|---------|
| | Freq | Factor | Level | Loss | Factor | Line | Limit | Remark | |
| | MHz | dB | dBuV | dB | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 1255.00 | 26.05 | 41.57 | 5.13 | 24.72 | 45.37 | 54.00 | -8.63 | Average |
| 2 | 1255.00 | 26.05 | 44.47 | 5.13 | 24.72 | 48.27 | 74.00 | -25.73 | Peak |
| 3 | 2474.00 | 26.34 | 67.11 | 7.52 | 28.79 | 77.08 | 94.00 | -16.92 | Average |
| 4 | 2474.00 | 26.34 | 73.70 | 7.52 | 28.79 | 83.67 | 114.00 | -30.33 | Peak |
| 5 | 4621.00 | 27.38 | 27.97 | 11.56 | 32.49 | 44.64 | 54.00 | -9.36 | Average |
| 6 | 4621.00 | 27.38 | 31.92 | 11.56 | 32.49 | 48.59 | 74.00 | -25.41 | Peak |
| 7 | 6304.00 | 27.76 | 18.35 | 16.60 | 35.62 | 42.81 | 54.00 | -11.19 | Average |
| 8 | 6304.00 | 27.76 | 23.35 | 16.60 | 35.62 | 47.81 | 74.00 | -26.19 | Peak |
| 9 | 11387.00 | 28.94 | 17.70 | 17.24 | 39.81 | 45.81 | 54.00 | -8.19 | Average |
| 10 | 11387.00 | 28.94 | 21.44 | 17.24 | 39.81 | 49.55 | 74.00 | -24.45 | Peak |
| 11 | 15637.00 | 29.65 | 17.05 | 20.41 | 38.92 | 46.73 | 54.00 | -7.27 | Average |
| 12 | 15637.00 | 29.65 | 21.03 | 20.41 | 38.92 | 50.71 | 74.00 | -23.29 | Peak |

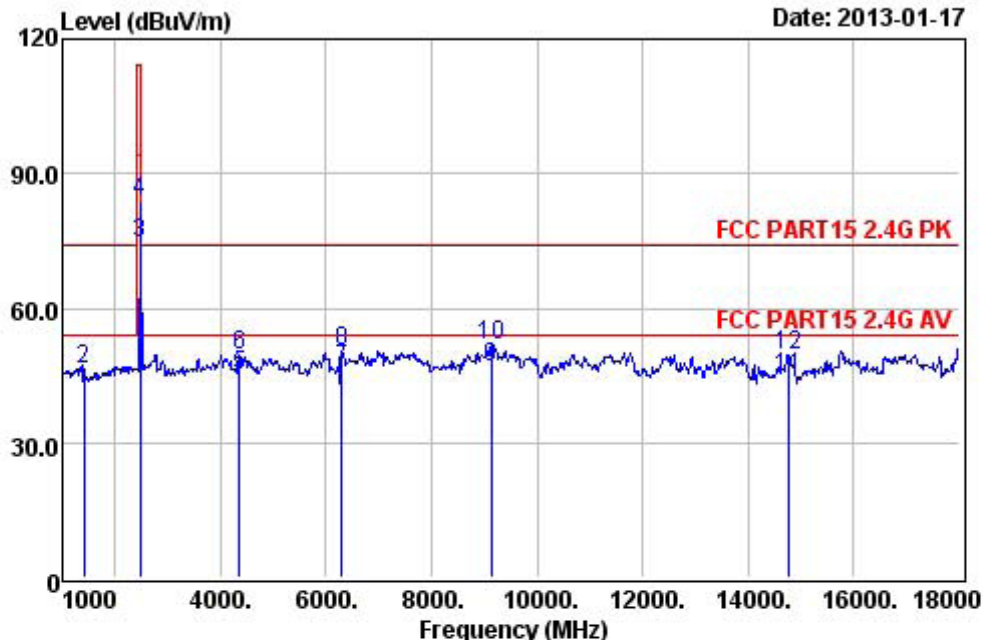
Notes: 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp Factor.
 2. Measurement Uncertainty: ±3.2dB at a level of confidence of 95%.





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Data: 88 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
 EUT : Nano Receiver
 M/N : MRN
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: TX Mode 2474MHz

| | Preamp | Read | CableAntenna | Limit | Over | | | | |
|----|----------|--------|--------------|-------|--------|--------|--------|--------|---------|
| | Freq | Factor | Level | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dB | dBuV | dB | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 1408.00 | 26.08 | 37.61 | 5.25 | 25.09 | 41.87 | 54.00 | -12.13 | Average |
| 2 | 1408.00 | 26.08 | 42.33 | 5.25 | 25.09 | 46.59 | 74.00 | -27.41 | Peak |
| 3 | 2474.00 | 26.34 | 64.52 | 7.52 | 28.79 | 74.49 | 94.00 | -19.51 | Average |
| 4 | 2474.00 | 26.34 | 73.70 | 7.52 | 28.79 | 83.67 | 114.00 | -30.33 | Peak |
| 5 | 4349.00 | 27.21 | 29.37 | 11.03 | 31.99 | 45.18 | 54.00 | -8.82 | Average |
| 6 | 4349.00 | 27.21 | 33.58 | 11.03 | 31.99 | 49.39 | 74.00 | -24.61 | Peak |
| 7 | 6304.00 | 27.76 | 21.81 | 16.60 | 35.62 | 46.27 | 54.00 | -7.73 | Average |
| 8 | 6304.00 | 27.76 | 26.07 | 16.60 | 35.62 | 50.53 | 74.00 | -23.47 | Peak |
| 9 | 9126.00 | 28.45 | 20.83 | 16.89 | 37.54 | 46.81 | 54.00 | -7.19 | Average |
| 10 | 9126.00 | 28.45 | 25.94 | 16.89 | 37.54 | 51.92 | 74.00 | -22.08 | Peak |
| 11 | 14753.00 | 29.51 | 14.95 | 19.84 | 39.55 | 44.83 | 54.00 | -9.17 | Average |
| 12 | 14753.00 | 29.51 | 19.75 | 19.84 | 39.55 | 49.63 | 74.00 | -24.37 | Peak |

Notes: 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp Factor.
 2. Measurement Uncertainty: ±3.24 dB at a level of confidence of 95%.



5. 20DB OCCUPY BANDWIDTH

5.1. Limits

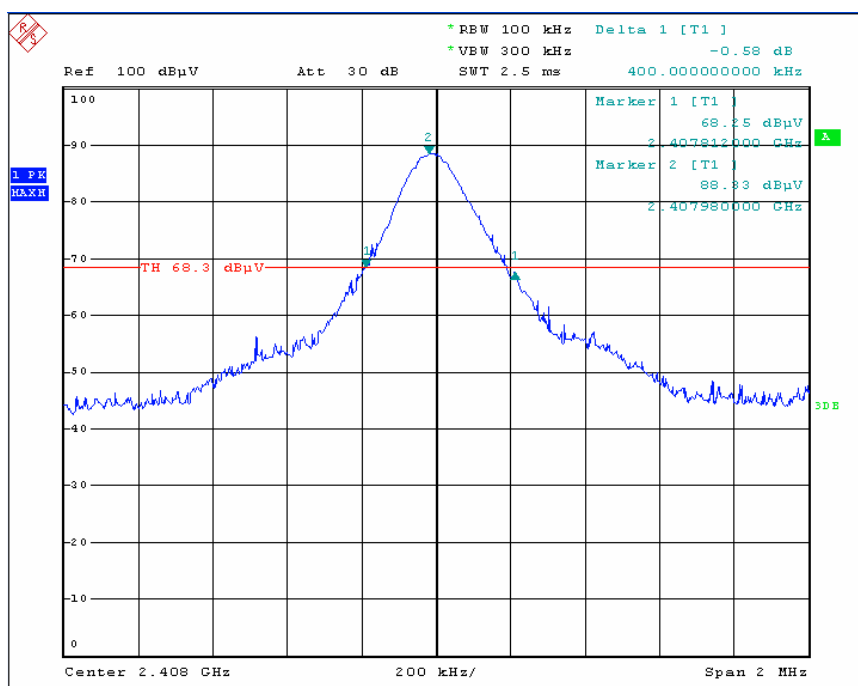
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Test data:

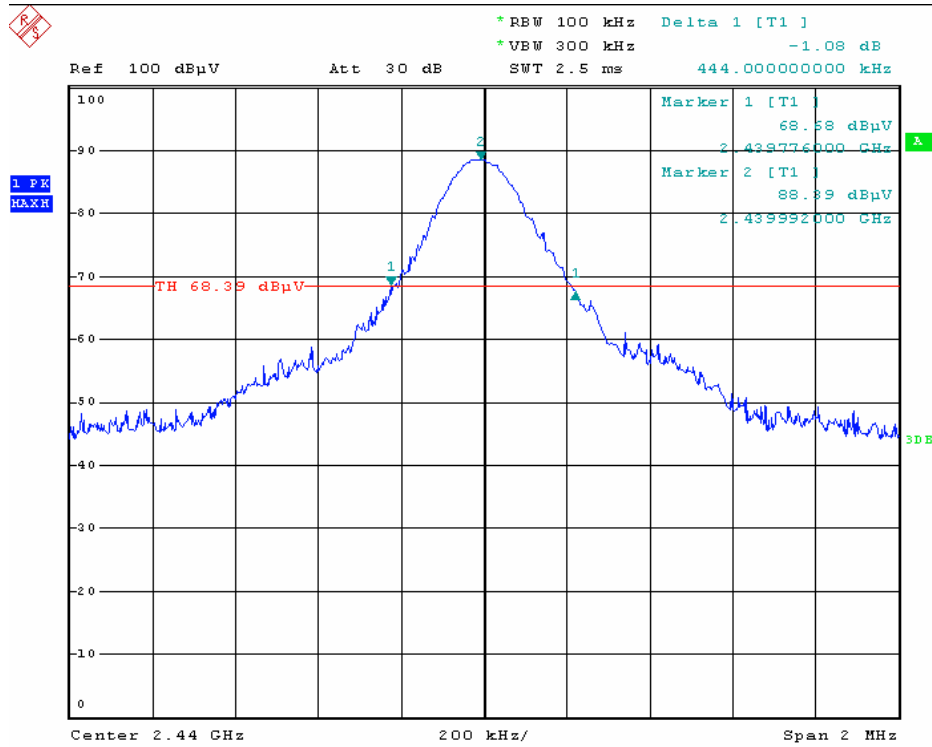
| Channel Frequency (MHz) | 20dB Bandwidth (MHz) | Limit (kHz) |
|-------------------------|----------------------|-------------|
| 2408 | 0.400 | N/A |
| 2440 | 0.444 | N/A |
| 2474 | 0.432 | N/A |

Test plot as follows:

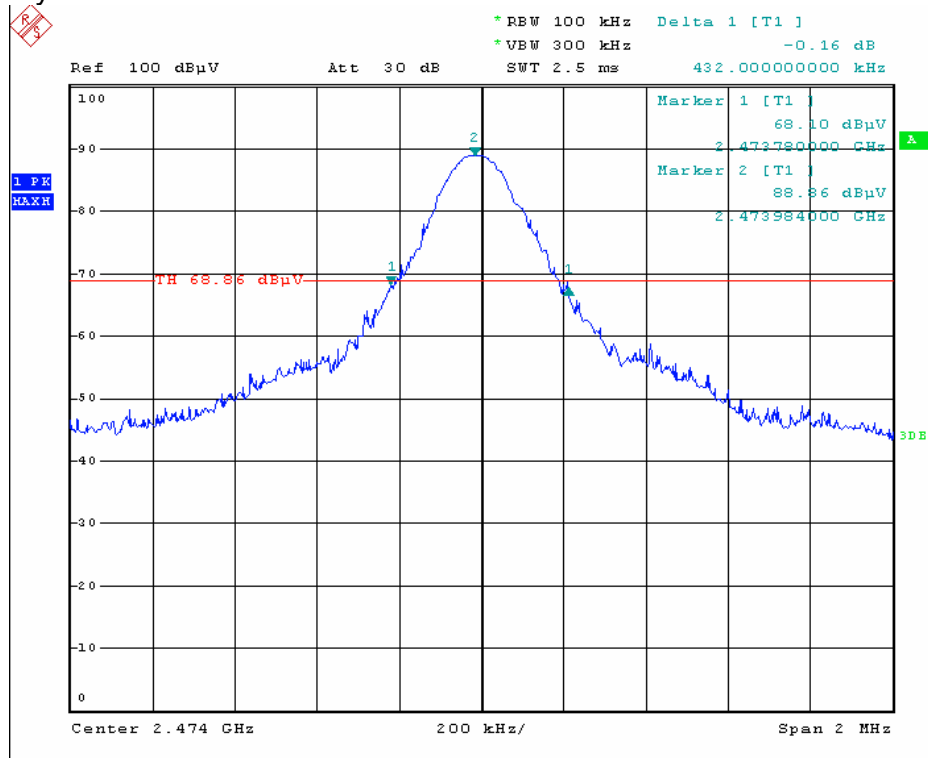
Test Frequency: 2408MHz



Test Frequency: 2440MHz



Test Frequency: 2474MHz



6. BAND EDGE COMPLIANCE TEST

6.1. Limits

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.2. Test setup

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure.

Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

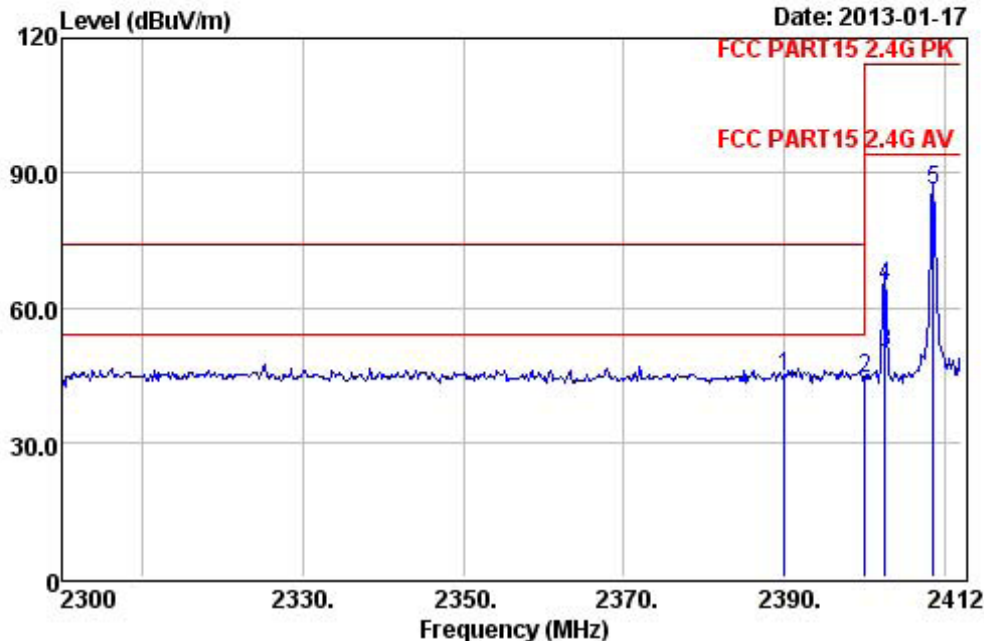
Test plot as follows:



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Data: 93 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-17



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
 EUT : Nano Receiver
 M/N : MRN
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: TX Mode 2408MHz

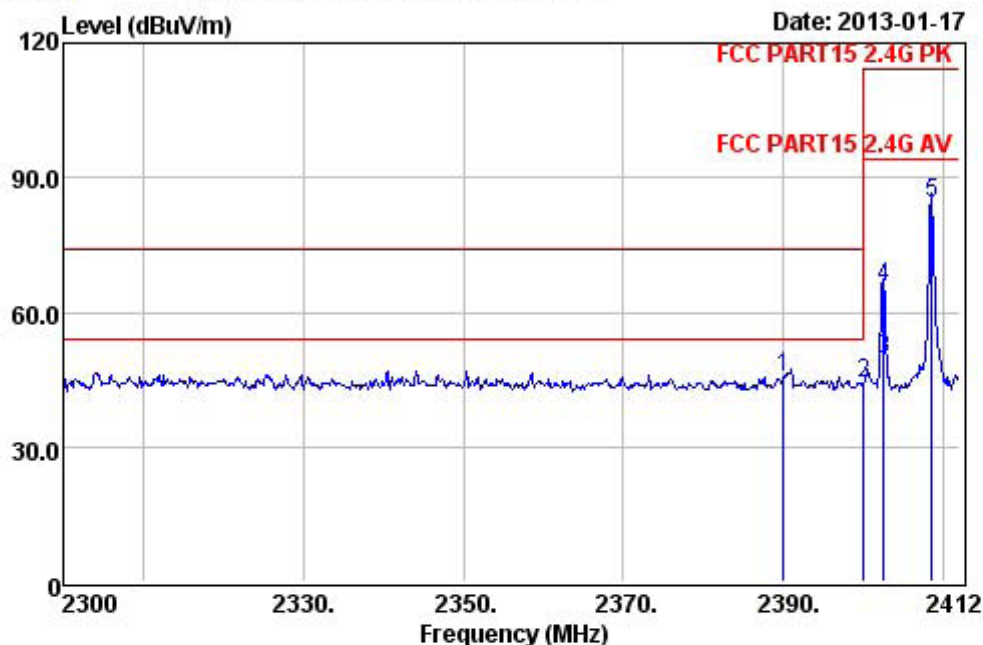
| | Preamp | Read | Cable | Antenna | Limit | Over | | | |
|---|---------|--------|-------|---------|--------|--------|--------|--------|---------|
| | Freq | Factor | Level | Loss | Factor | Level | Line | Limit | |
| | MHz | | dBuV | dB | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 2390.00 | 26.32 | 34.90 | 7.34 | 28.72 | 44.64 | 74.00 | -29.36 | Peak |
| 2 | 2400.00 | 26.32 | 34.62 | 7.34 | 28.72 | 44.36 | 74.00 | -29.64 | Peak |
| 3 | 2402.60 | 26.32 | 40.05 | 7.39 | 28.73 | 49.85 | 54.00 | -4.15 | Average |
| 4 | 2402.60 | 26.32 | 54.92 | 7.39 | 28.73 | 64.72 | 74.00 | -9.28 | Peak |
| 5 | 2408.60 | 26.32 | 76.11 | 7.39 | 28.73 | 85.91 | 114.00 | -28.09 | Peak |





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Data: 92 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
 EUT : Nano Receiver
 M/N : MRN
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: TX Mode 2408MHz

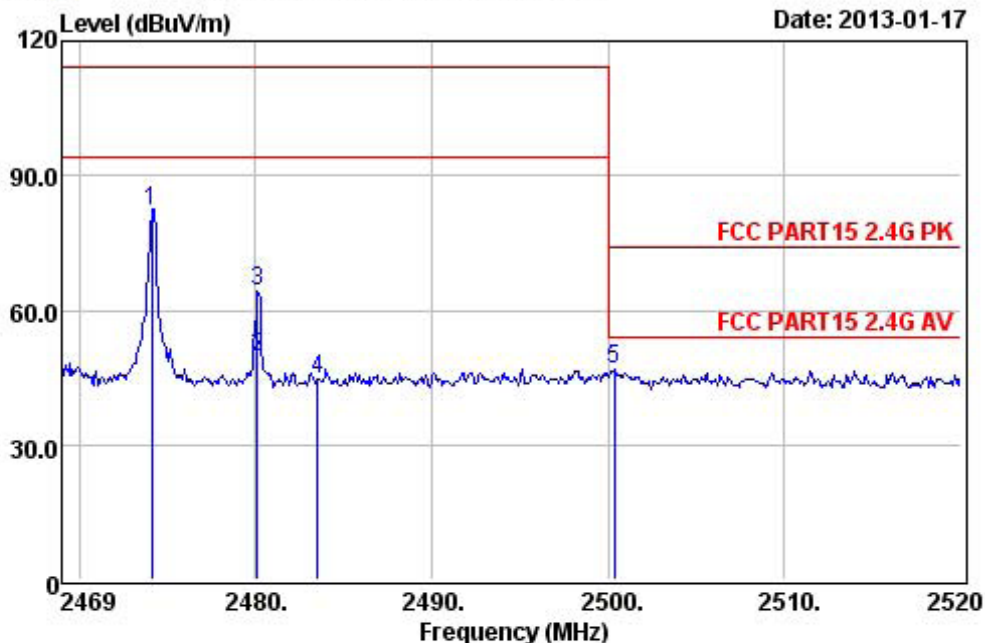
| | Preamp | Read | CableAntenna | Limit | Over | | | | |
|---|---------|--------|--------------|-------|--------|--------|--------|--------|---------|
| | Freq | Factor | Level | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | | dBuV | dB | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 2390.00 | 26.32 | 35.68 | 7.34 | 28.72 | 45.42 | 74.00 | -28.58 | Peak |
| 2 | 2400.00 | 26.32 | 34.24 | 7.34 | 28.72 | 43.98 | 74.00 | -30.02 | Peak |
| 3 | 2402.60 | 26.32 | 39.57 | 7.39 | 28.73 | 49.37 | 54.00 | -4.63 | Average |
| 4 | 2402.60 | 26.32 | 55.98 | 7.39 | 28.73 | 65.78 | 74.00 | -8.22 | Peak |
| 5 | 2408.60 | 26.32 | 74.69 | 7.39 | 28.73 | 84.49 | 114.00 | -29.51 | Peak |





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Data: 90 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
 EUT : Nano Receiver
 M/N : MRN
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: TX Mode 2474MHz

| | Preamp | Read | CableAntenna | Limit | Over | | | | |
|---|---------|--------|--------------|-------|--------|--------|--------|--------|---------|
| | Freq | Factor | Level | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dB | dBuV | dB | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 2474.10 | 26.34 | 72.01 | 7.52 | 28.79 | 81.98 | 114.00 | -32.02 | Peak |
| 2 | 2480.10 | 26.34 | 39.44 | 7.57 | 28.79 | 49.46 | 54.00 | -4.54 | Average |
| 3 | 2480.10 | 26.34 | 54.28 | 7.57 | 28.79 | 64.30 | 74.00 | -9.70 | Peak |
| 4 | 2483.50 | 26.34 | 34.68 | 7.57 | 28.79 | 44.70 | 74.00 | -29.30 | Peak |
| 5 | 2500.32 | 26.35 | 36.70 | 7.61 | 28.80 | 46.76 | 74.00 | -27.24 | Peak |

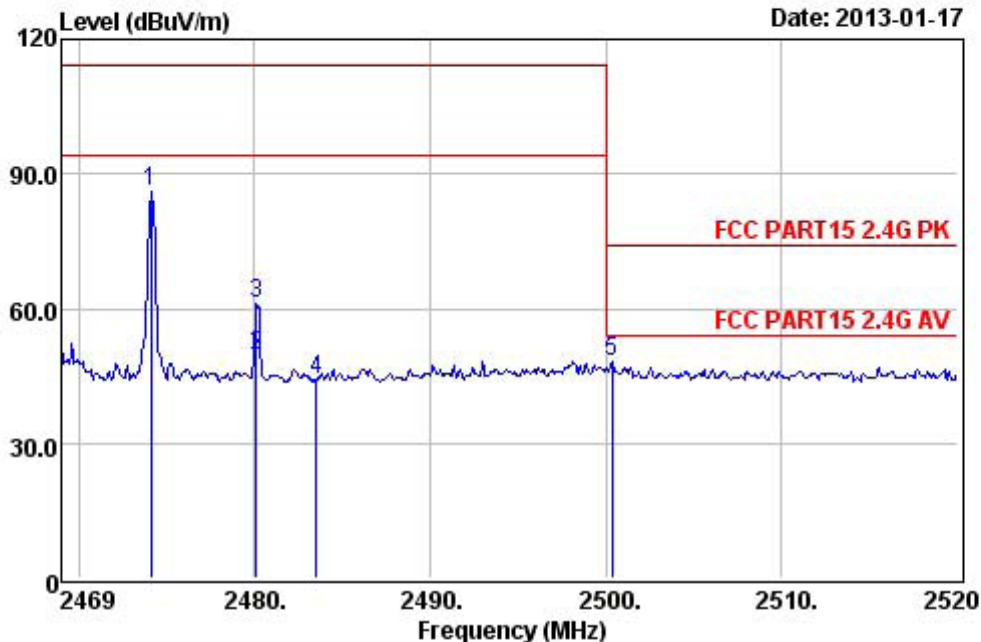




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Data: 89 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-17



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
 EUT : Nano Receiver
 M/N : MRN
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: TX Mode 2474MHz

| | | Preamp | Read | CableAntenna | | Limit | Over | | |
|---|---------|--------|-------|--------------|--------|--------|--------|--------|---------|
| | Freq | Factor | Level | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dB | dBuV | dB | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 2474.10 | 26.34 | 75.92 | 7.52 | 28.79 | 85.89 | 114.00 | -28.11 | Peak |
| 2 | 2480.10 | 26.34 | 39.35 | 7.57 | 28.79 | 49.37 | 54.00 | -4.63 | Average |
| 3 | 2480.10 | 26.34 | 51.13 | 7.57 | 28.79 | 61.15 | 74.00 | -12.85 | Peak |
| 4 | 2483.50 | 26.34 | 34.16 | 7.57 | 28.79 | 44.18 | 74.00 | -29.82 | Peak |
| 5 | 2500.32 | 26.35 | 38.21 | 7.61 | 28.80 | 48.27 | 74.00 | -25.73 | Peak |



7. ANTENNA REQUIREMENT:

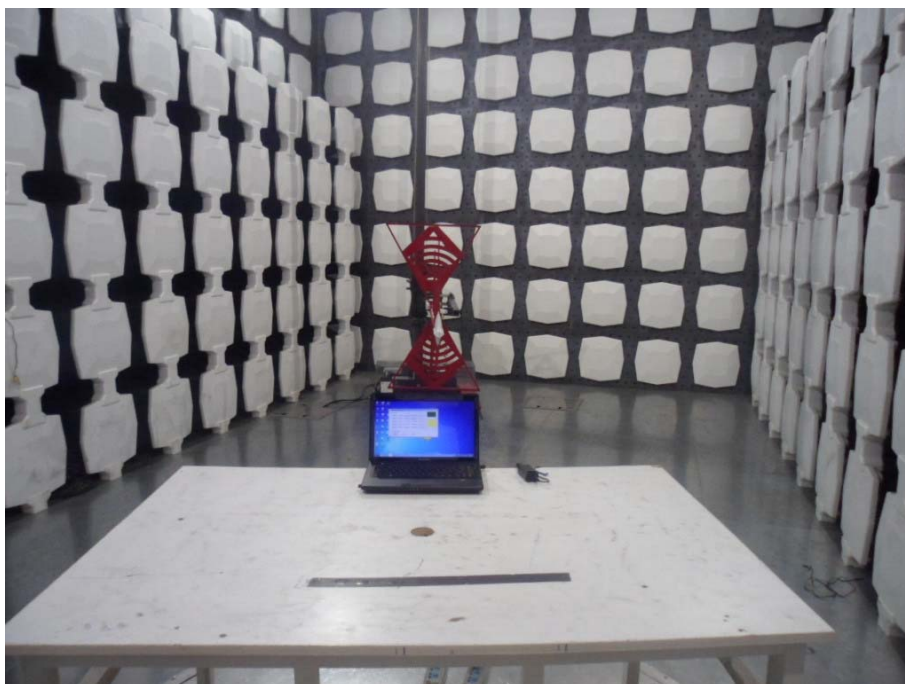
| | |
|--|-------------------------------------|
| Standard requirement: | FCC Part15 C Section 15.203 /247(c) |
| <p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p> | |
| E.U.T Antenna: | |
| The antenna is Integral antenna, the best case gain of the antenna is 0.5dBi | |

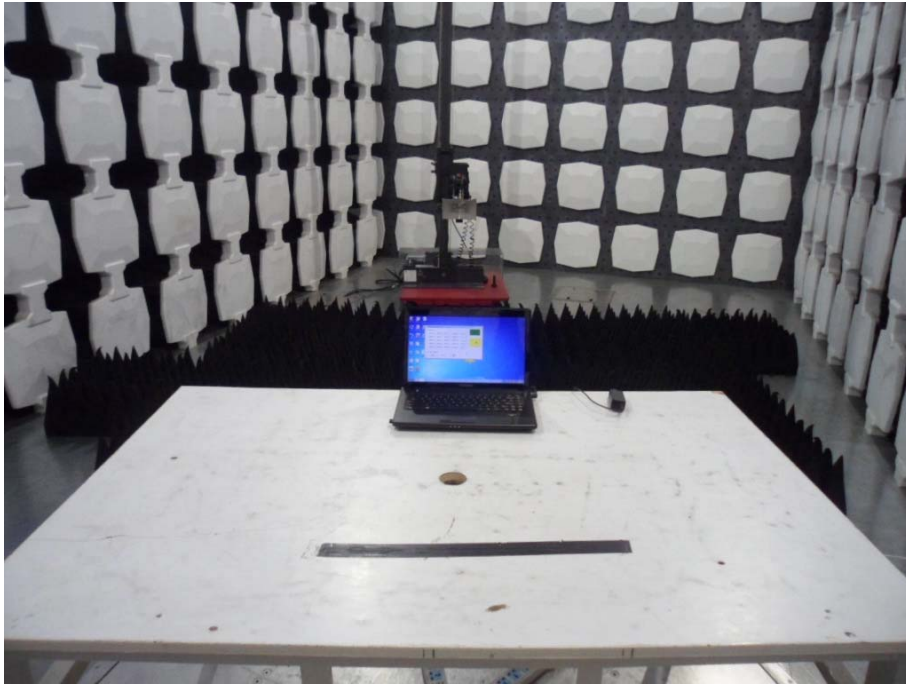
8. PHOTOGRAPHS OF TEST SET-UP

8.1. Set-up for Conducted Emission Test



8.2. Set-up for Radiated Emission Test





9. PHOTOGRAPHS OF THE EUT

Figure 1
General Appearance of the EUT

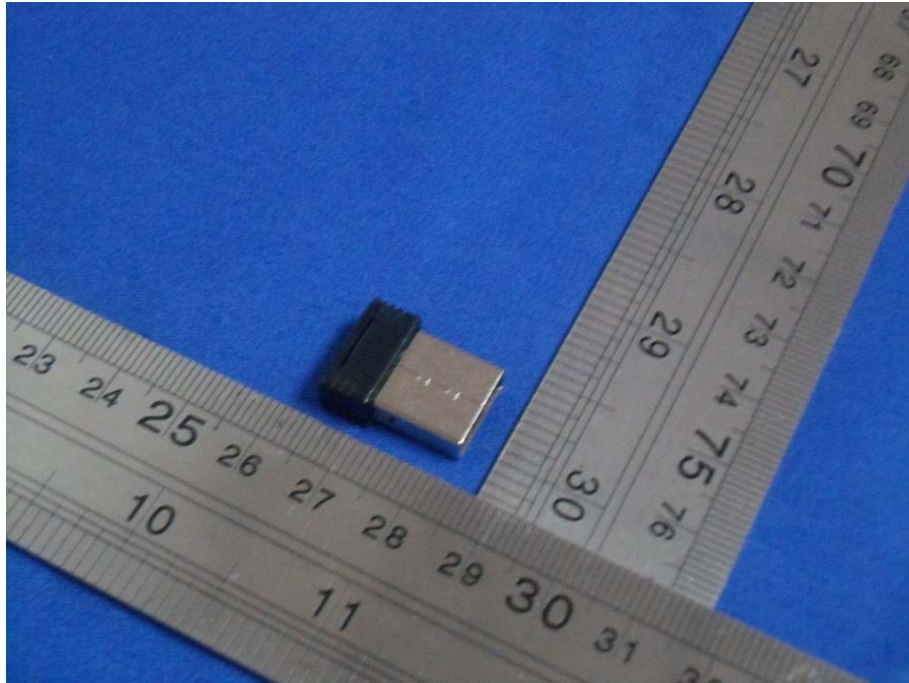


Figure 2
General Appearance of the EUT

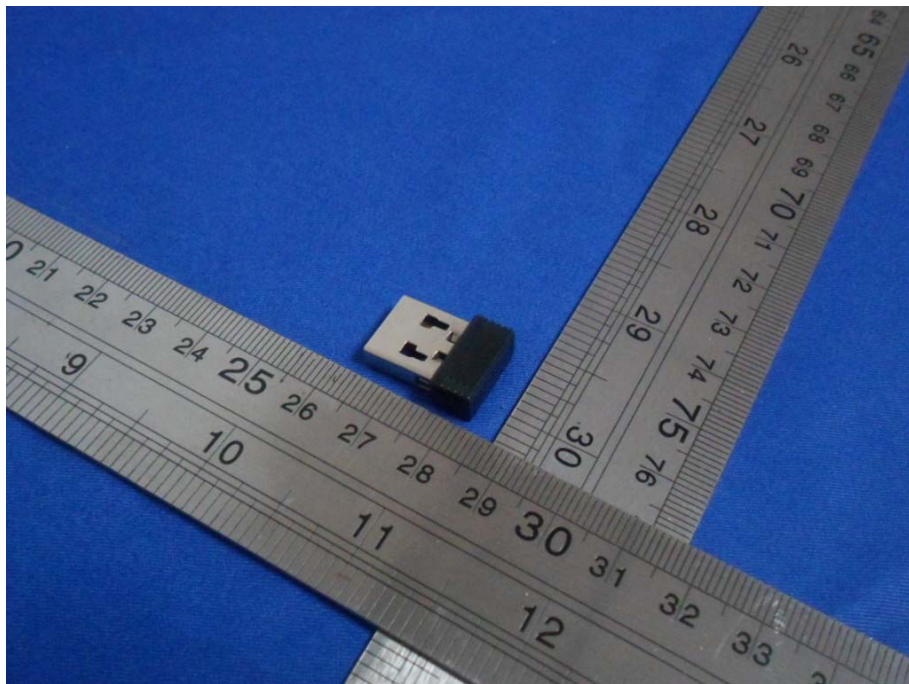


Figure 3
General Appearance of the PCB

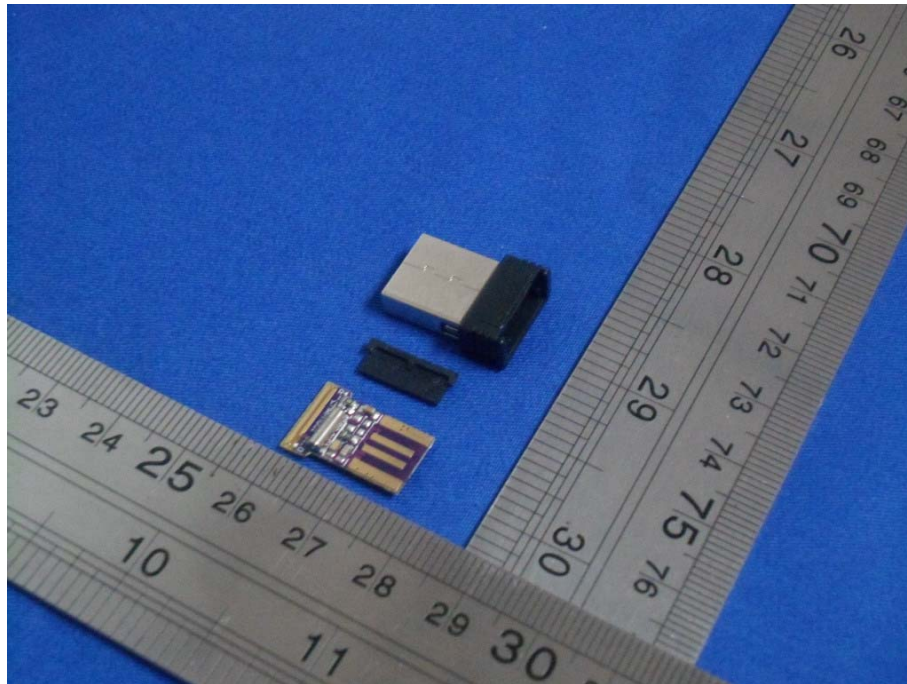


Figure 4
General Appearance of the PCB

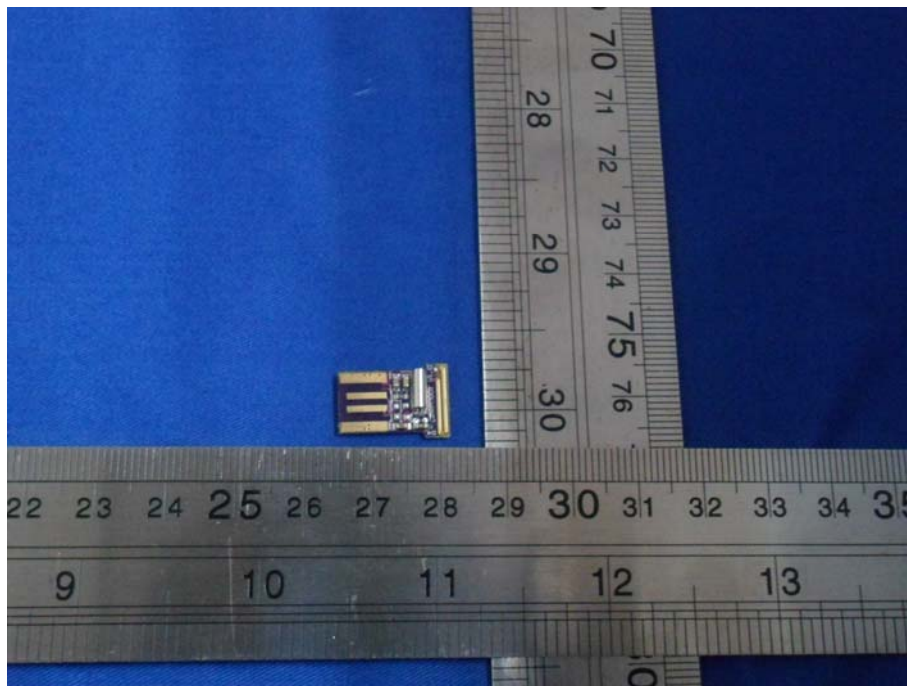
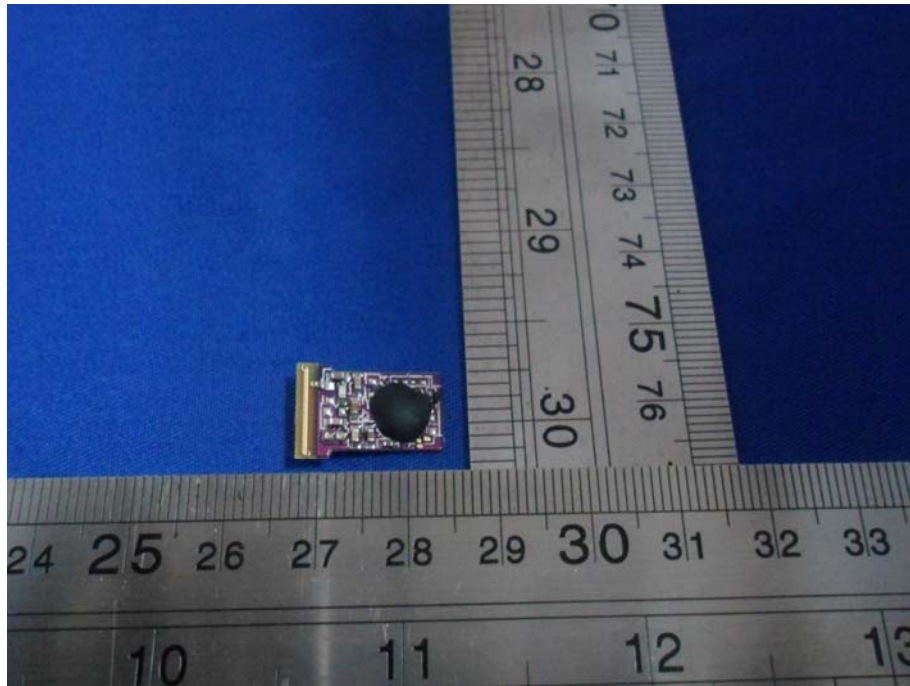


Figure 5
General Appearance of the PCB



END.